Index of Claims

Application No. Applicant(s) 10/003,133 SIMMS, KEVIN A. Examiner Art Unit

R j cted Allowed

(Through numeral) Cancell d

Restricted

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Non-Elect d Ν I Interference

Bernard Rojas

App al Α 0 Objected

2832

| Claim         Date           Eg         Eg           Eg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                    |
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| 10       60         11       61         12       62         13       63         14       60         15       64         15       65         16       66         17       66         19       68         19       69         20       70         21       71         22       72         23       74         25       75         26       76         27       77         28       79         30       80         31       81                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                    |
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| 13   v    63   64   65   65   66   67   68   69   69   70   71   72   72   73   73   74   74   75   75   75   75   75   75                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | $\bot$             |
| 14 O 64 65 65 66 66 77 77 78 78 8 79 30 30 31 81                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                    |
| 15   \( \sqrt{1} \)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | +                  |
| 16     V       17     V       18     V       19     V       20     O       21     70       22     72       23     73       24     74       25     75       26     76       27     78       28     79       30     80       31     81                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                    |
| 17     √       18     √       19     √       20     O       21     70       22     72       23     73       24     74       25     75       26     76       27     77       28     79       30     80       31     81                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                    |
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| 22       23       24       25       26       27       28       29       30       31                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                    |
| 23     73       24     74       25     75       26     76       27     77       28     79       29     79       30     80       31     81                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ++-                |
| 24     74       25     75       26     76       27     77       28     78       29     79       30     80       31     81                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                    |
| 25     75       26     76       27     77       28     78       29     79       30     80       31     81                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                    |
| 26     76       27     77       28     78       29     79       30     80       31     81                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <del>-11</del>     |
| 27     77       28     78       29     79       30     80       31     81                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                    |
| 28     78       29     79       30     80       31     81                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <del>-   -  </del> |
| 29 79 80 80 81 81 81                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -+ +-              |
| 30 80 81 81 81 81 81 81 81 81 81 81 81 81 81                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | +                  |
| 31 81                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | +                  |
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| 33 83                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <del> </del>       |
| 34 84                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                    |
| 35 85                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | T 1-               |
| 36 86                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                    |
| 37 87                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                    |
| 38 88 88                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                    |
| 39 89                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                    |
| 40 90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                    |
| 41 91                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                    |
| 42 92                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                    |
| 43 93                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | $\perp$            |
| 44 94 94                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                    |
| 45 95                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                    |
| 46 96                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                    |
| 47 97                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                    |
| 48 98                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | +                  |
| 49 99                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                    |
| 50 100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |

| Cla      | laim Date |          |                |          |              |              |          |          |              |          |
|----------|-----------|----------|----------------|----------|--------------|--------------|----------|----------|--------------|----------|
|          | 1         |          |                |          |              |              |          |          |              | Π        |
| Final    | Original  |          |                |          |              |              |          |          |              |          |
|          | 51<br>52  |          |                |          |              | _            | <u> </u> | $\vdash$ | T            | <u> </u> |
|          | 52        |          |                |          | Г            |              | Π        | Γ        |              |          |
|          | 53        |          |                |          | Π            |              | Γ        | t        |              |          |
|          | 54        |          |                |          |              |              |          |          |              | Г        |
|          | 55        |          | T              |          |              |              | Г        |          | T            |          |
|          | 56        |          |                |          |              |              | T        |          | Г            |          |
|          | 56<br>57  |          | 1              |          | 1            |              |          |          |              | Г        |
|          | 58        |          |                |          |              |              |          |          |              |          |
|          | 59        |          |                |          |              |              |          |          |              |          |
|          | 60        |          |                |          |              |              |          |          |              |          |
|          | 61        |          | Γ              |          |              |              |          |          |              |          |
|          | 62        | L.       |                |          |              |              |          |          |              |          |
|          | 63        |          |                |          |              |              |          |          |              |          |
|          | 64        |          |                |          |              |              |          |          |              |          |
|          | 65        |          |                |          |              |              | Ĺ        |          |              |          |
|          | 66        |          |                |          | $\Box$       |              |          |          |              |          |
|          | 67        | L        |                |          |              |              |          |          |              |          |
|          | 68        |          |                |          |              |              | Ĺ        |          |              |          |
|          | 69        |          |                |          |              |              |          |          |              |          |
|          | 70        | _        |                |          |              |              |          | L_       |              |          |
|          | 71        |          | L              |          |              |              |          |          |              |          |
|          | 72        |          |                |          |              |              |          |          |              |          |
|          | 73        |          |                |          |              |              |          |          |              |          |
|          | 74        |          |                |          |              |              |          |          |              |          |
| <u></u>  | 75        | _        | <u> </u>       | <u> </u> | _            |              | L        | <u></u>  |              |          |
|          | 76        |          |                | L        | _            | L            |          |          |              |          |
|          | 77        |          | _              |          | L            |              | <u> </u> |          |              | _        |
|          | 78        | ļ        | <b>!</b>       | <b>.</b> | _            | 1            | _        |          | _            | _        |
|          | 79        | <u> </u> | L.             |          | <u> </u>     | L            | <u> </u> | L        | _            | _        |
|          | 80        |          | _              |          | _            | _            | L        | L.       | _            | L        |
|          | 81        | _        | _              | _        | _            | _            |          | _        |              |          |
|          | 82        | _        | _              | _        |              | _            | L.       | _        | ļ            | L        |
| L        | 83        | _        |                |          | _            | _            | <u> </u> | ļ        | <u> </u>     | _        |
| L        | 84        | ļ        |                | ļ        | <u> </u>     | <u> </u>     |          | Ш        | <u> </u>     | <b> </b> |
| <u> </u> | 85        | <u> </u> | <u> </u>       | <u> </u> | <u> </u>     | <u> </u>     | <u> </u> | L        | <u> </u>     | <u> </u> |
| L        | 86        | <u> </u> | <u> </u>       |          | <b> </b> _   | _            | <u> </u> | $\vdash$ | ļ            | _        |
| L        | 87        | <u> </u> | <u> </u>       | L        | <u> </u>     | <u>L</u> .   |          | L        | <u> </u>     | L.       |
| <b> </b> | 88        | <u> </u> | <u> </u>       |          |              | ļ            | <u> </u> |          |              |          |
|          | 89        |          |                | ļ        | <u> </u>     | $\vdash$     | <u> </u> | <u> </u> | <u> </u>     |          |
| ļ        | 90        | <u> </u> | <u> </u>       | <u> </u> | <u> </u>     | _            | -        | _        | <u> </u>     | <u> </u> |
| <u> </u> | 91        | ļ        |                | <u> </u> | <u> </u>     |              | <u> </u> | <u> </u> | <u> </u>     | Щ        |
| <b> </b> | 92        | -        | ├              | <u> </u> | <u> </u>     | <del> </del> |          | _        | <u> </u>     | $\vdash$ |
| <u> </u> | 93        | <u> </u> | -              | ļ        | <u> </u>     | <u> </u>     | <u> </u> |          |              | ļ        |
| i        | 94        | <u> </u> | <u> </u>       | <u> </u> | <del> </del> | <u> </u>     | ļ        | -        | <u> </u>     | Щ.       |
| <b> </b> | 95        |          | <u> </u>       | <u> </u> | ├—           | <u> </u>     | -        |          | ш            |          |
| <u> </u> | 96        | <b> </b> | -              |          | -            | <u> </u>     |          | <u> </u> | <u> </u>     | <u> </u> |
|          | 97        | <u> </u> | <del> </del> — | <u> </u> |              | <u> </u>     |          |          | <del> </del> | -        |
|          | 98<br>99  | <u> </u> | <u> </u>       | _        | <u> </u>     | -            |          |          | -            | <u> </u> |
| <u> </u> | 100       | -        | -              | -        | }—           | -            | -        |          |              | -        |

| Claim         Date           E         E           D         0           101         102           103         104           105         106           107         108           109         110           111         112           113         114           115         116           117         118           119         120           121         122           123         124           125         126           127         128           129         130           131         132           133         134           135         136           137         138           139         140           141         142           143         144           144         145           146         147           148         149           150         150                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                   | J        |          | L—   |                                                  |                                               |          |              |          | J                                                |          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------|----------|------|--------------------------------------------------|-----------------------------------------------|----------|--------------|----------|--------------------------------------------------|----------|
| Teal   |                   |          |          | D-4- |                                                  |                                               |          |              |          |                                                  |          |
| 101                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Cli               | Claim    |          |      |                                                  | <u>,                                     </u> | Jat      | <u>e</u>     |          | _                                                |          |
| 102                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Final             | Original |          |      |                                                  |                                               |          |              |          |                                                  |          |
| 102                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                   | 101      |          | ┝    | _                                                |                                               | -        |              | $\vdash$ | <del>                                     </del> |          |
| 103 104 105 106 107 108 109 110 111 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 131 132 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -                 | 102      | <u> </u> | -    | <del>                                     </del> | -                                             | ╁─       |              | _        | -                                                | 1        |
| 104   105   106   107   108   109   110   111   112   113   114   115   116   117   118   119   120   121   122   123   124   125   126   127   128   129   130   131   132   133   134   135   136   137   138   139   140   141   142   143   144   145   146   147   148   149   149   149   140   141   142   148   149   149   140   141   142   143   144   145   146   147   148   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149 |                   | 103      |          | ┢═   | t                                                | $\vdash$                                      | -        | _            | t –      | $\vdash$                                         | $\vdash$ |
| 105 106 107 108 109 110 111 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 127 128 129 130 131 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                   | 104      |          |      |                                                  |                                               | $\vdash$ |              |          | _                                                | _        |
| 106 107 108 109 110 111 111 1112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                   | 105      |          |      |                                                  |                                               |          |              |          |                                                  |          |
| 108                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                   | 106      |          |      |                                                  |                                               |          |              |          |                                                  |          |
| 109 110 111 111 112 113 114 115 116 117 118 119 120 121 121 122 123 124 125 126 127 128 129 130 131 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   | 107      |          |      |                                                  |                                               |          |              |          |                                                  |          |
| 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 126 127 128 129 130 131 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                   | 108      |          |      |                                                  |                                               |          |              |          |                                                  | <u> </u> |
| 1111         112         113         114         115         116         117         118         119         120         121         122         123         124         125         126         127         128         129         130         131         132         133         134         135         136         137         138         139         140         141         142         143         144         145         146         147         148                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   | 109      |          |      |                                                  |                                               |          | Ш            | L        |                                                  |          |
| 112         113         114         115         116         117         118         119         120         121         122         123         124         125         126         127         128         129         130         131         132         133         134         135         136         137         138         139         140         141         142         143         144         145         146         147         148                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                   | 110      |          |      | _                                                | _                                             |          |              | _        | _                                                | _        |
| 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                   | 111      |          | L_   | <u> </u>                                         | _                                             | _        | ļ            | _        |                                                  |          |
| 114         115         116         117         118         119         120         121         122         123         124         125         126         127         128         129         130         131         132         133         134         135         136         137         138         139         140         141         142         143         144         145         146         147         148         149                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -                 | 112      |          |      | <u> </u>                                         | _                                             | ļ        | L            |          | ├—                                               |          |
| 115         116         117         118         119         120         121         122         123         124         125         126         127         128         129         130         131         132         133         134         135         136         137         138         139         140         141         142         143         144         145         146         147         148         149                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   | 113      |          | _    | -                                                | -                                             | <u> </u> | <u> </u>     | <u> </u> |                                                  | <u> </u> |
| 116                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <u> </u>          | 114      | -        | -    | ├-                                               | _                                             | ├─       | ⊢            |          | ├                                                | -        |
| 117                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                   |          |          |      | -                                                |                                               |          | -            | _        | <del> </del>                                     |          |
| 118         119         120         121         122         123         124         125         126         127         128         129         130         131         132         133         134         135         136         137         138         139         140         141         142         143         144         145         146         147         148         149                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1                 | 117      |          |      | $\vdash$                                         | <u> </u>                                      |          | <del> </del> | ┢        | <del> </del> —                                   |          |
| 119       120       121       122       123       124       125       126       127       128       129       130       131       132       133       134       135       136       137       138       139       140       141       142       143       144       145       146       147       148       149                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   | 118      |          |      | $\vdash$                                         |                                               | ┝        | $\vdash$     | $\vdash$ | ├─                                               | -        |
| 120 121 122 123 124 125 126 127 128 129 130 131 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 1446 1447 148 149                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                   | 119      | -        |      |                                                  |                                               |          | _            | <u> </u> |                                                  | -        |
| 122<br>123<br>124<br>125<br>126<br>127<br>128<br>129<br>130<br>131<br>132<br>133<br>134<br>135<br>136<br>137<br>138<br>139<br>140<br>141<br>142<br>143<br>144<br>145<br>146<br>147<br>148                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                   | 120      |          | _    |                                                  | _                                             | _        |              |          | _                                                |          |
| 122<br>123<br>124<br>125<br>126<br>127<br>128<br>129<br>130<br>131<br>132<br>133<br>134<br>135<br>136<br>137<br>138<br>139<br>140<br>141<br>142<br>143<br>144<br>145<br>146<br>147<br>148                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                   | 121      |          |      |                                                  |                                               |          |              |          | _                                                |          |
| 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 144 145 146 147 148                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   | 122      |          |      |                                                  |                                               |          |              |          |                                                  |          |
| 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 145 146 147 148                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   | 123      |          |      |                                                  |                                               |          |              |          |                                                  |          |
| 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 145 146 147 148                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   | 124      |          |      |                                                  |                                               | <u> </u> | _            | _        | ļ                                                |          |
| 130<br>131<br>132<br>133<br>134<br>135<br>136<br>137<br>138<br>139<br>140<br>141<br>142<br>143<br>144<br>1445<br>1446<br>147<br>148                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                   | 125      |          |      | _                                                | <u> </u>                                      | L_       | <u> </u>     | <u> </u> | <u> </u>                                         | <u></u>  |
| 130<br>131<br>132<br>133<br>134<br>135<br>136<br>137<br>138<br>139<br>140<br>141<br>142<br>143<br>144<br>1445<br>1446<br>147<br>148                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -                 | 126      |          |      | _                                                | L.                                            | _        | <u> </u>     | <u> </u> |                                                  |          |
| 130<br>131<br>132<br>133<br>134<br>135<br>136<br>137<br>138<br>139<br>140<br>141<br>142<br>143<br>144<br>1445<br>1446<br>147<br>148                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | $\vdash$          | 127      |          |      |                                                  | H                                             |          | <del> </del> | <u> </u> | -                                                | Н        |
| 130<br>131<br>132<br>133<br>134<br>135<br>136<br>137<br>138<br>139<br>140<br>141<br>142<br>143<br>144<br>1445<br>1446<br>147<br>148                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1                 | 120      |          |      |                                                  | -                                             |          | <del> </del> | -        |                                                  | Н        |
| 131<br>132<br>133<br>134<br>135<br>136<br>137<br>138<br>139<br>140<br>141<br>142<br>143<br>144<br>144<br>145<br>146<br>147<br>148                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>——</b>         | 130      | _        |      |                                                  | -                                             | ┝        | -            | ┝        | <u> </u>                                         | $\vdash$ |
| 132<br>133<br>134<br>135<br>136<br>137<br>138<br>139<br>140<br>141<br>142<br>143<br>144<br>145<br>146<br>147<br>148                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                   |          |          |      |                                                  | _                                             | $\vdash$ |              | _        | -                                                |          |
| 133<br>134<br>135<br>136<br>137<br>138<br>139<br>140<br>141<br>142<br>143<br>144<br>145<br>146<br>147<br>148                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 11                | 132      |          | _    |                                                  |                                               |          |              |          |                                                  |          |
| 134<br>135<br>136<br>137<br>138<br>139<br>140<br>141<br>142<br>143<br>144<br>145<br>146<br>147<br>148                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                   | 133      |          |      |                                                  |                                               |          |              |          |                                                  |          |
| 136<br>137<br>138<br>139<br>140<br>141<br>142<br>143<br>144<br>145<br>146<br>147<br>148                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                   | 134      |          |      |                                                  |                                               |          |              |          |                                                  |          |
| 137<br>138<br>139<br>140<br>141<br>142<br>143<br>144<br>145<br>146<br>147<br>148                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   | 135      |          |      |                                                  |                                               |          |              |          | L_                                               |          |
| 138<br>139<br>140<br>141<br>142<br>143<br>144<br>145<br>146<br>147<br>148                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                   | 136      |          |      | _                                                |                                               |          | Ш            | _        |                                                  |          |
| 139<br>140<br>141<br>142<br>143<br>144<br>145<br>146<br>147<br>148                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b></b>           | 137      |          |      |                                                  |                                               | Щ        | _            | _        |                                                  | Щ        |
| 140<br>141<br>142<br>143<br>144<br>145<br>146<br>147<br>148<br>149                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | $\longrightarrow$ | 138      |          |      | -                                                |                                               |          |              |          |                                                  | $\dashv$ |
| 141<br>142<br>143<br>144<br>145<br>146<br>147<br>148<br>149                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   | 140      |          |      | -                                                | _                                             | H        | <u> </u>     |          | _                                                | Н        |
| 142<br>143<br>144<br>145<br>146<br>147<br>148<br>149                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                   |          |          | _    |                                                  |                                               |          |              | -        | -                                                |          |
| 143<br>144<br>145<br>146<br>147<br>148<br>149                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | +                 | 142      |          |      | -                                                | _                                             |          |              |          | -                                                |          |
| 144<br>145<br>146<br>147<br>148<br>149                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                   |          |          |      |                                                  |                                               |          |              |          | $\vdash$                                         | $\vdash$ |
| 146<br>147<br>148<br>149                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                   | 144      |          |      |                                                  |                                               |          |              |          |                                                  |          |
| 146<br>147<br>148<br>149                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                   | 145      |          |      |                                                  |                                               |          |              |          |                                                  |          |
| 148                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                   | 146      |          |      |                                                  |                                               |          |              |          |                                                  |          |
| 149                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                   |          |          |      |                                                  |                                               |          |              |          | L_                                               |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   |          | _        |      |                                                  |                                               |          |              |          | <u></u>                                          | $\Box$   |
| 150                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | $\vdash$          |          |          | _    |                                                  |                                               |          | $\vdash$     | _        | $\vdash$                                         | <b>!</b> |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Ll                | 150      |          |      | L                                                |                                               |          | Ц            |          | L_                                               | L        |